Appendix K Conceptual Habitat Plan

Dra lage

Elverta, California

CLIENT:

Jeff Pemstein, 1640 Lead Hill Blvd., Suite Roseville, CA 95661 Project Manager

(916) 782-4427

NDEX 70 **DRAWINGS**

SITE

COVER SHEET
OVERALL HABITAT DEVELOPMENT PLAN: CORRIDORS B, C,& D

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L1.1 L1.2 L1.3

CORRIDOR

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HABITAT

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| DEVELOPMENT |
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PLAN

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26+58 -

43+39)

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26+58)

PLAN

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TATION 43+39 -

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TATION 60+55

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L0.1 L0.2

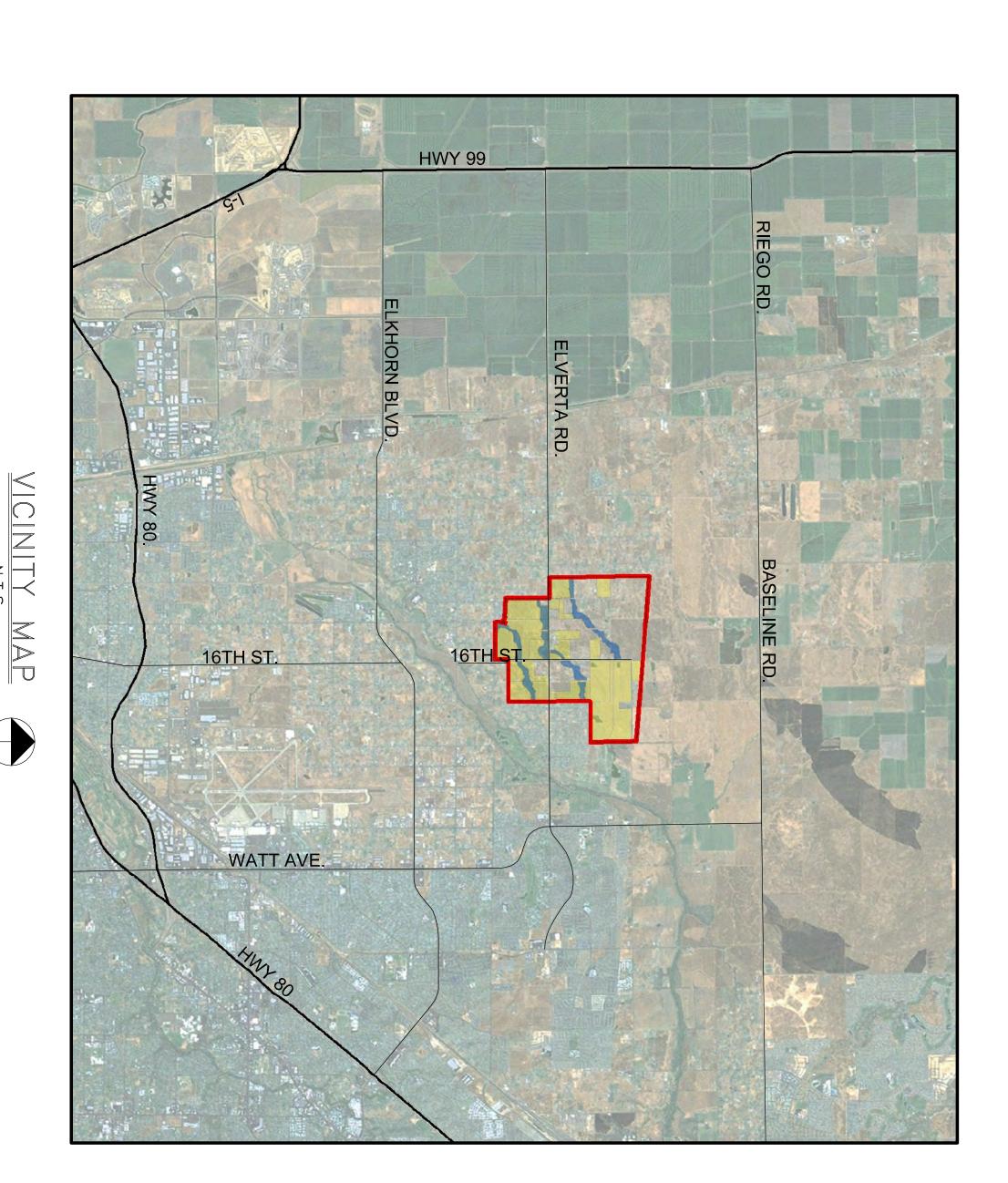
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SHEET SHEET SHEET SHEET L3.3 L3.4 CORRIDOR CORRIDOR CORRIDOR D D **HABITAT HABITAT HABITAT** I DEVELOPMENT FOR DEVELOPMENT PLAN PLAN **TATION TATION** 44+47 28+20 -62+18) 44+47)

L4.1 L4.2 CORRIDORS B, C, & D PI CONSTRUCTION NOTES D PL D N T **PALETTES**

SHEET SHEET SHEET SHEET L4.3 CONCEPTUAL S SECTIONS AND DETAILS



SHEET NO:	CHECKED BY:	RS	_ DATI	E: 10.7	7.11	
101	ORIGINAL DATE: 10.28.10	DRAW		1	UMBER: 029	
LO. I	REVISION: Water Quality Basin and Tr Corridor Redesign		DA 1.14 10.7		BY: L.Piper LP/MAH	
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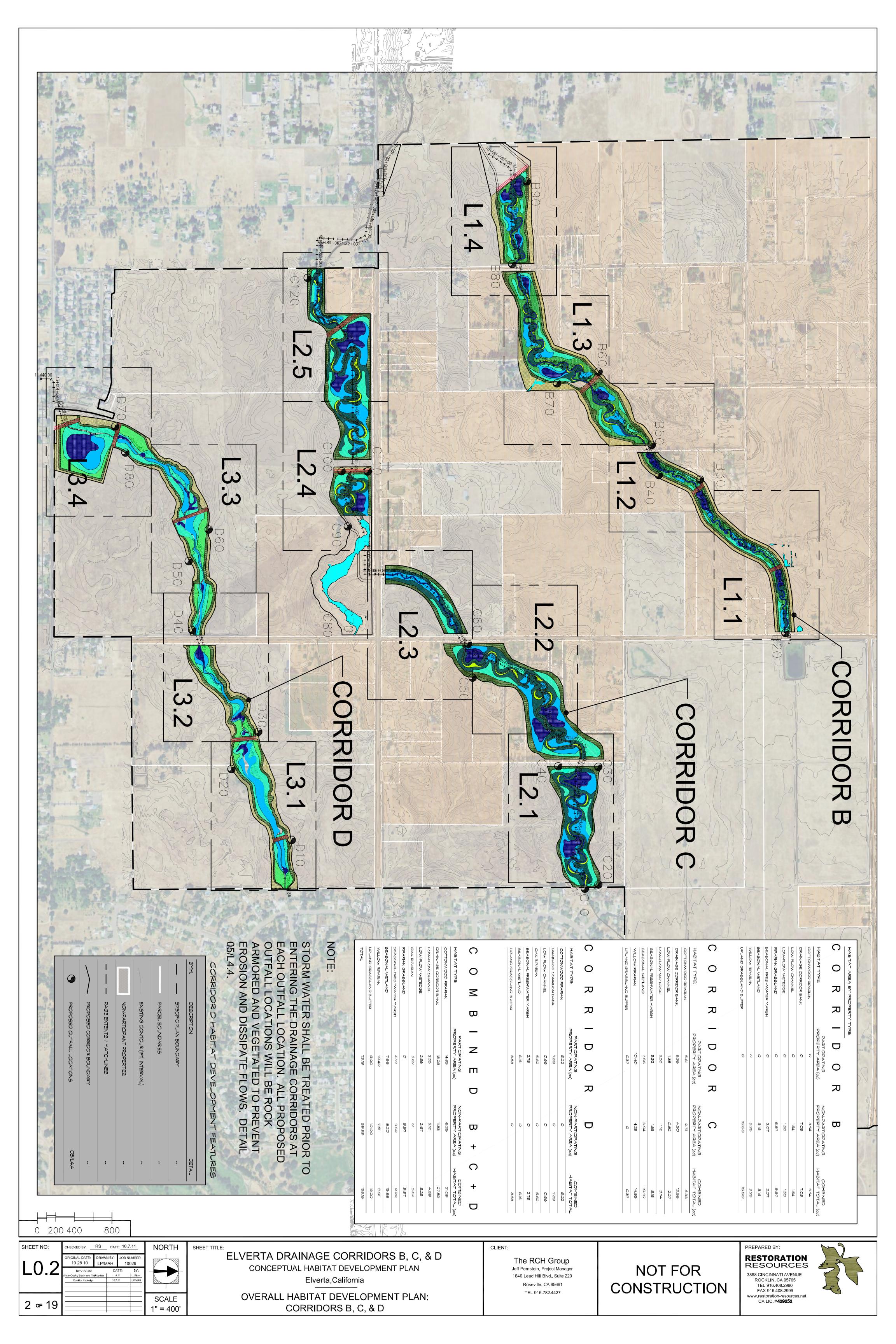
CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California

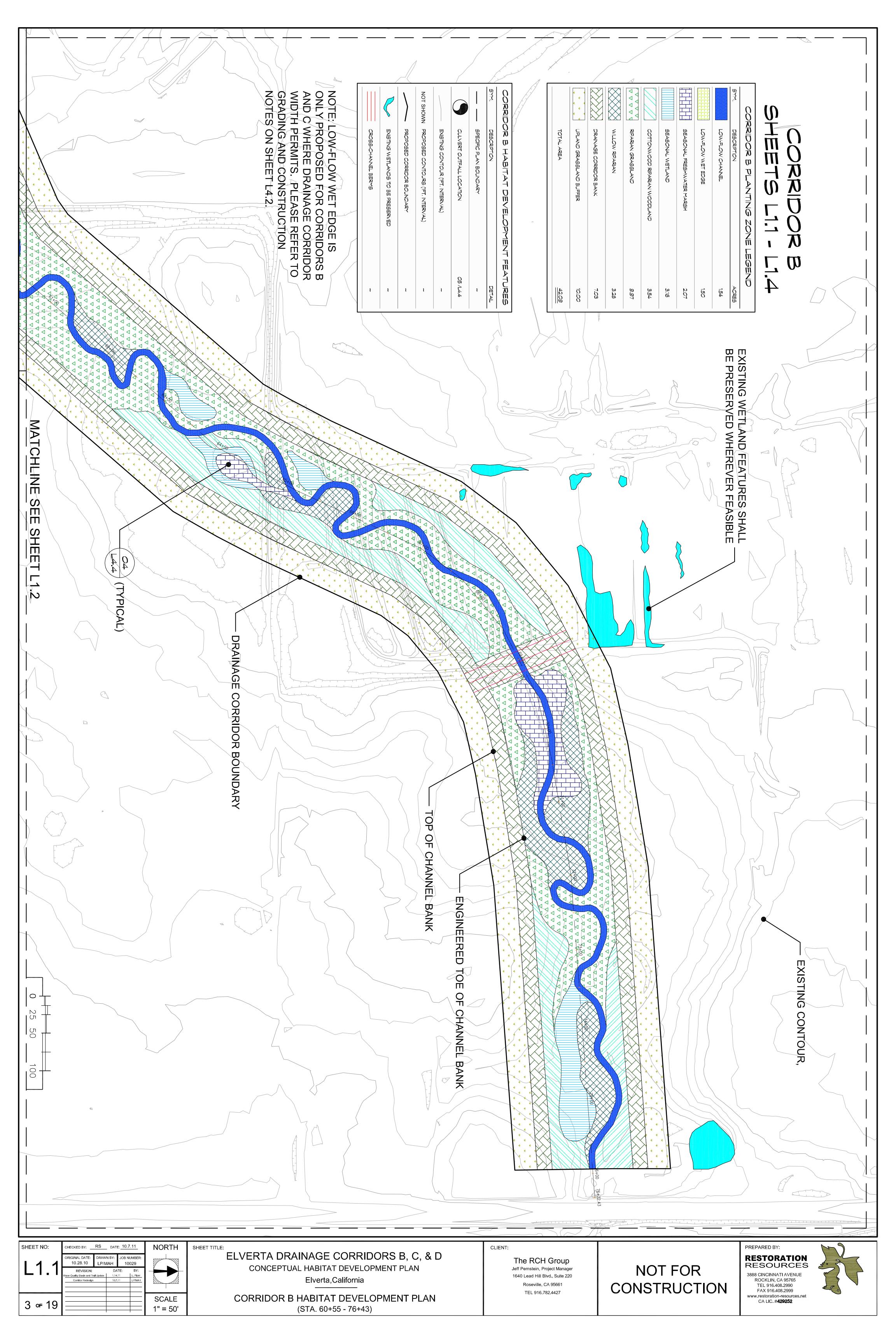
CLIENT: The RCH Group Jeff Pemstein, Project Manager 1640 Lead Hill Blvd., Suite 220 Roseville, CA 95661

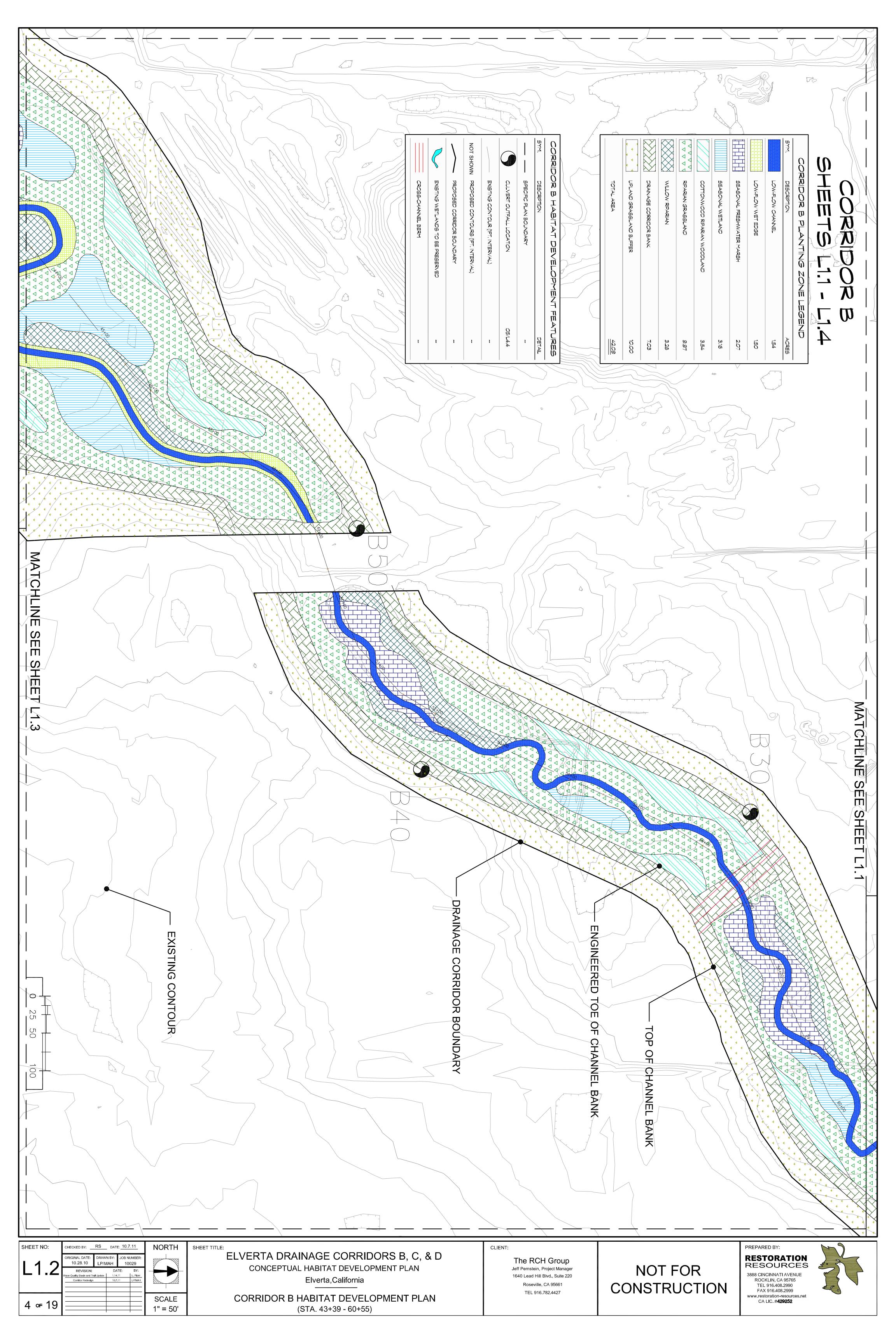
TEL 916.782.4427

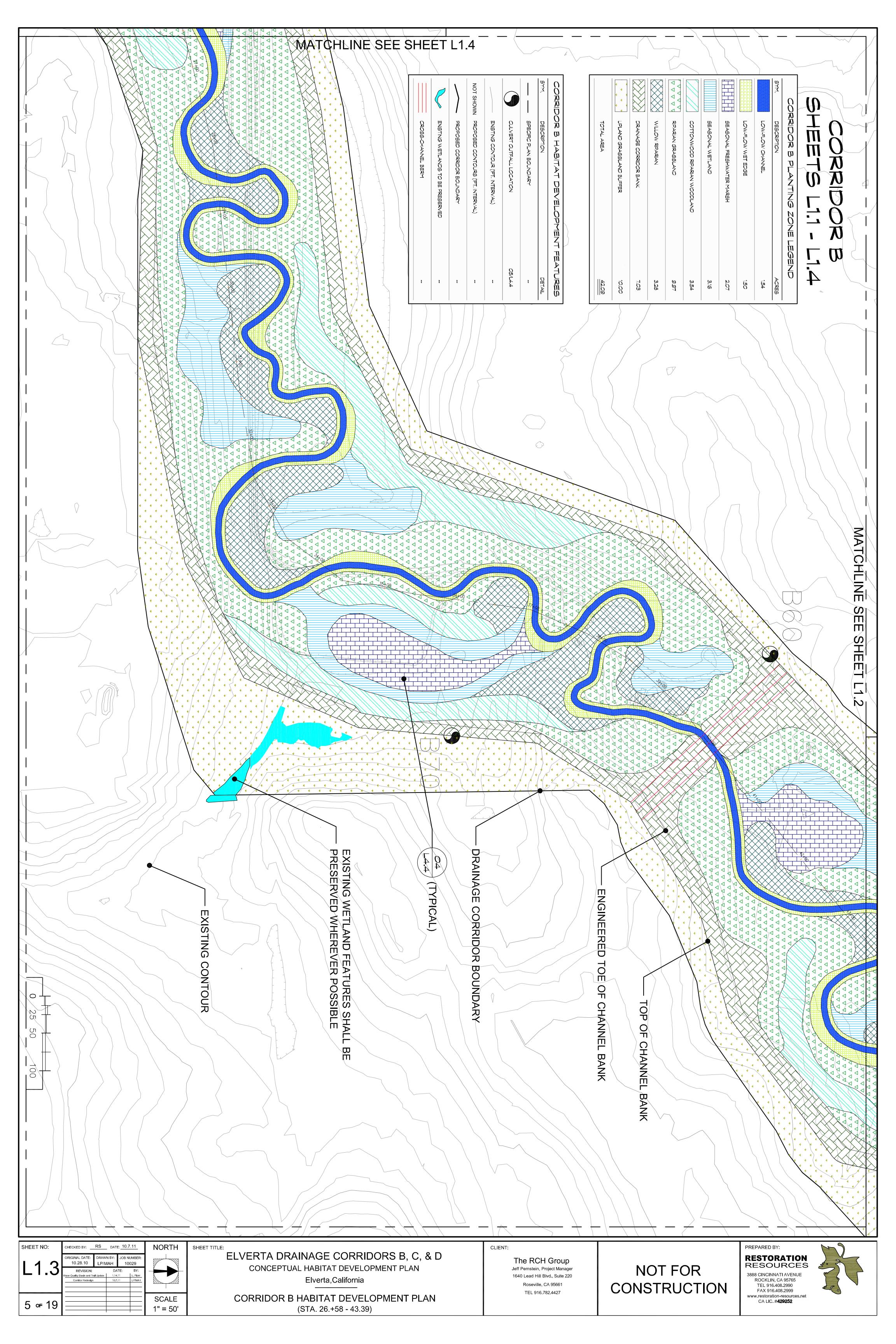
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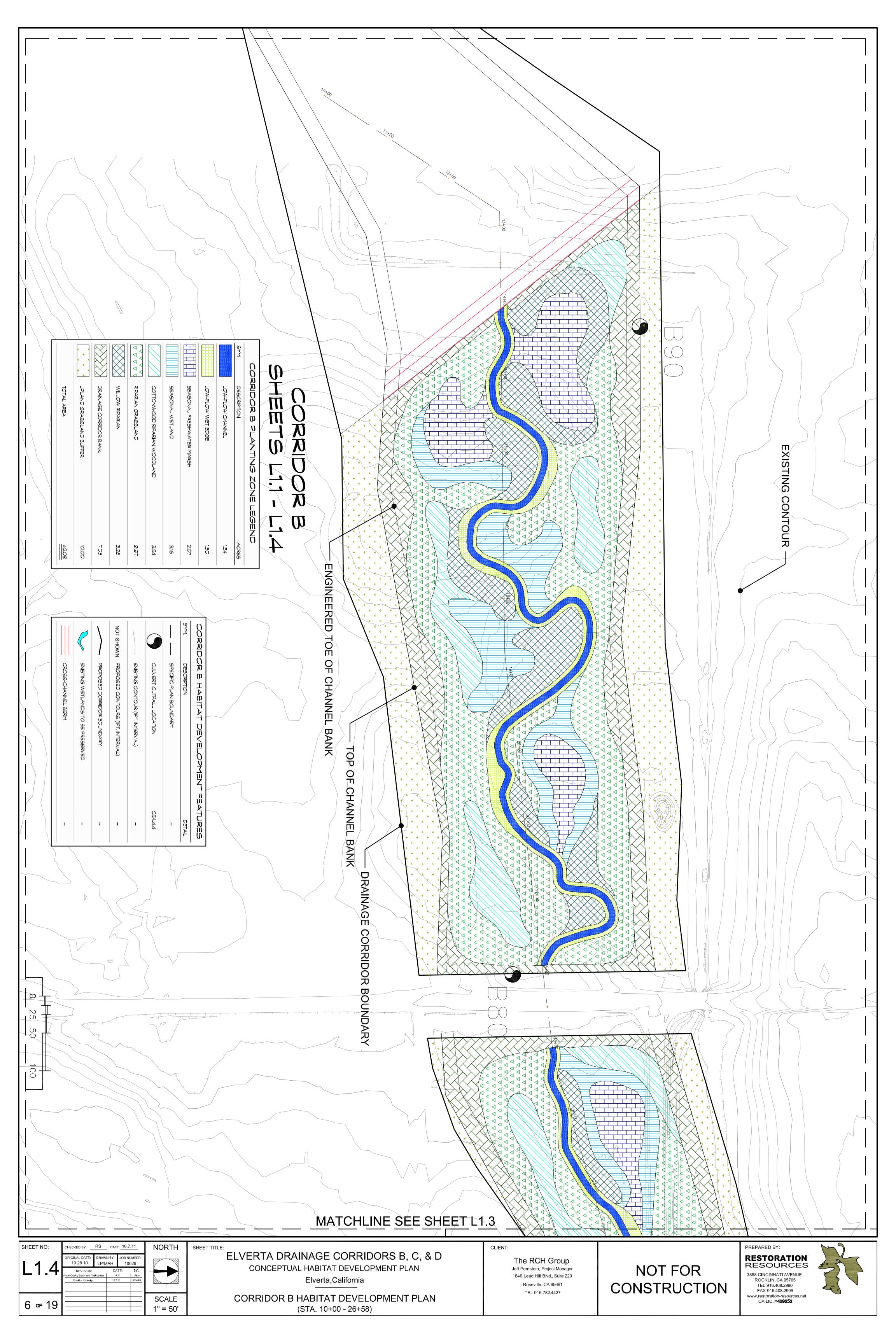


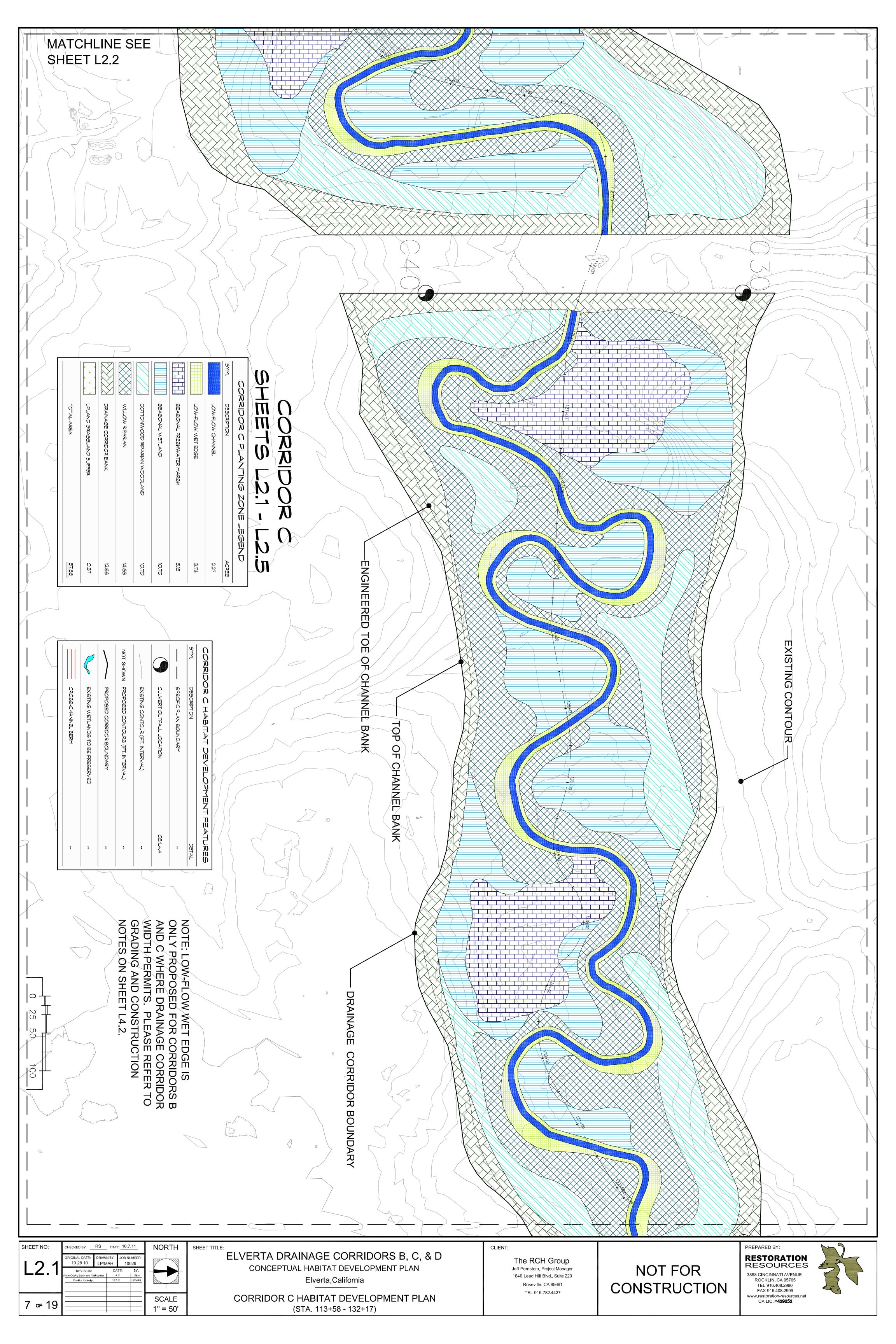


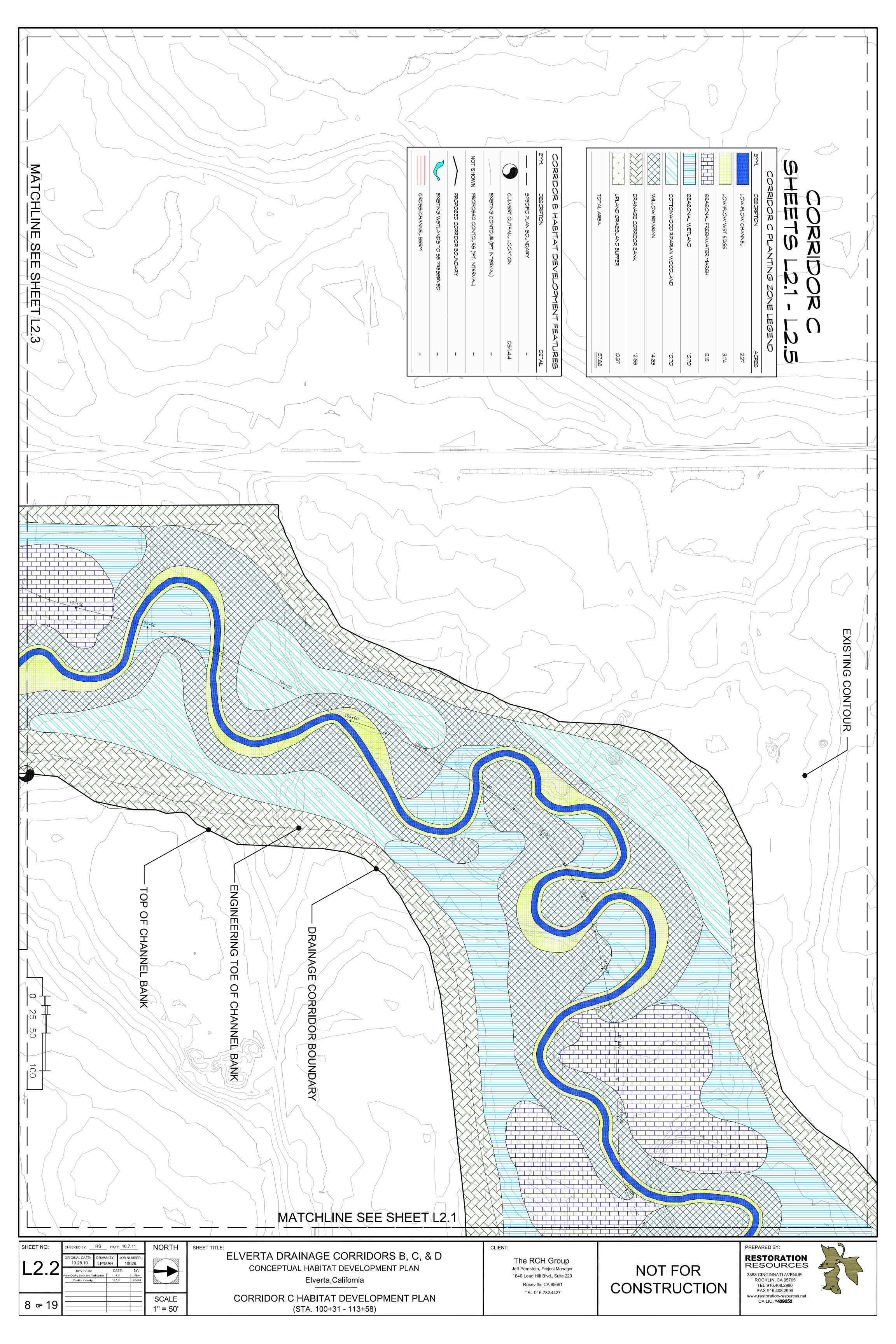


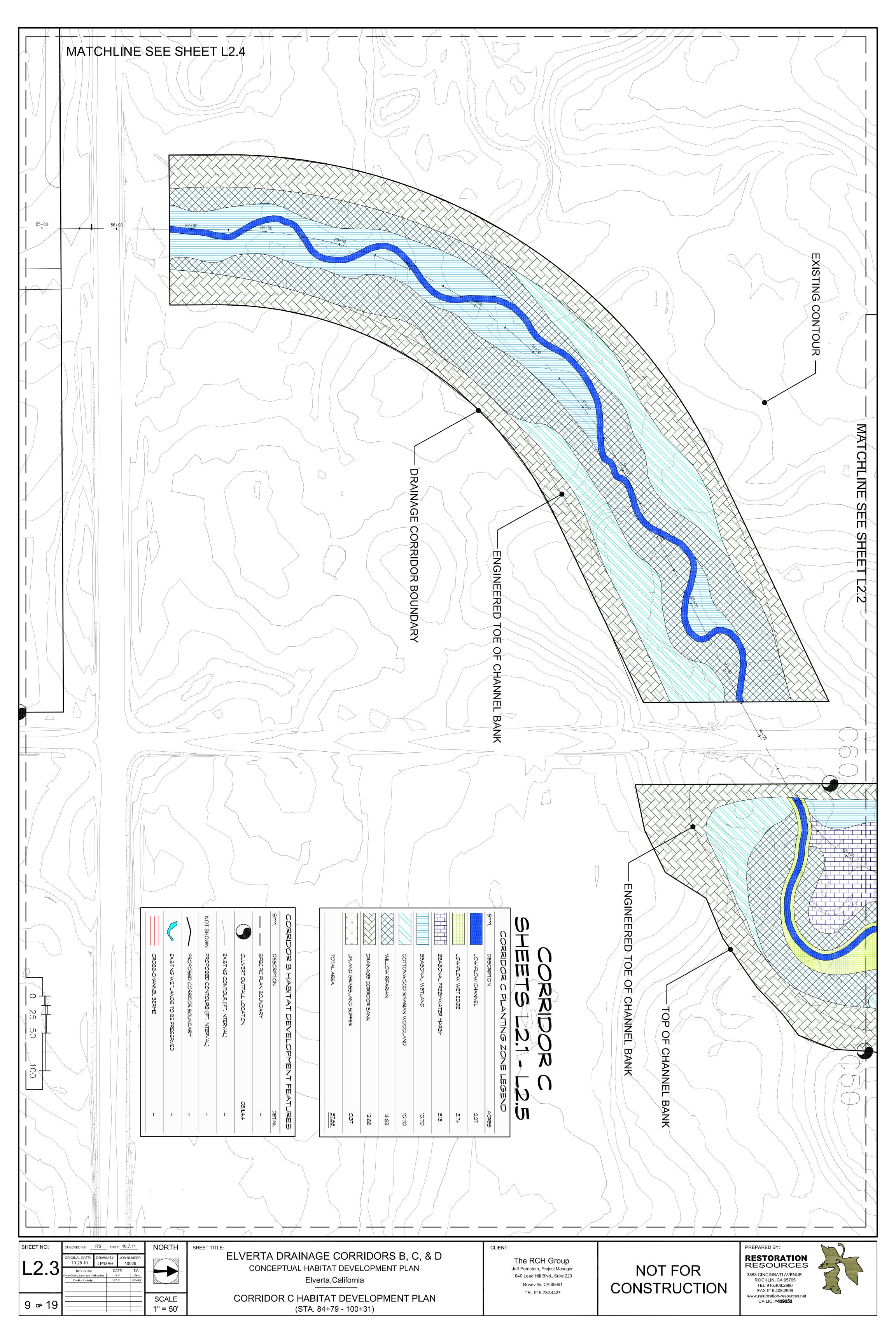


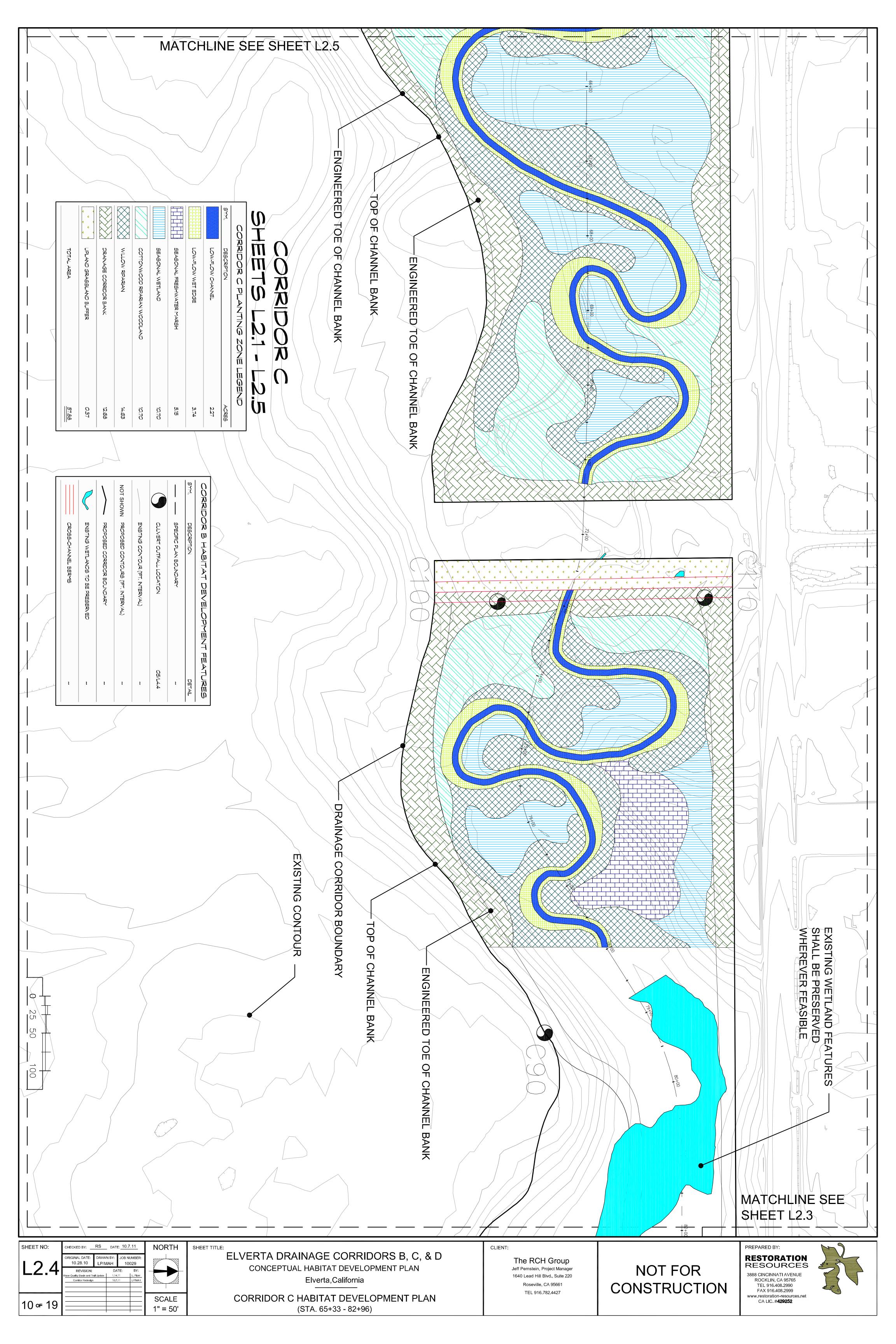


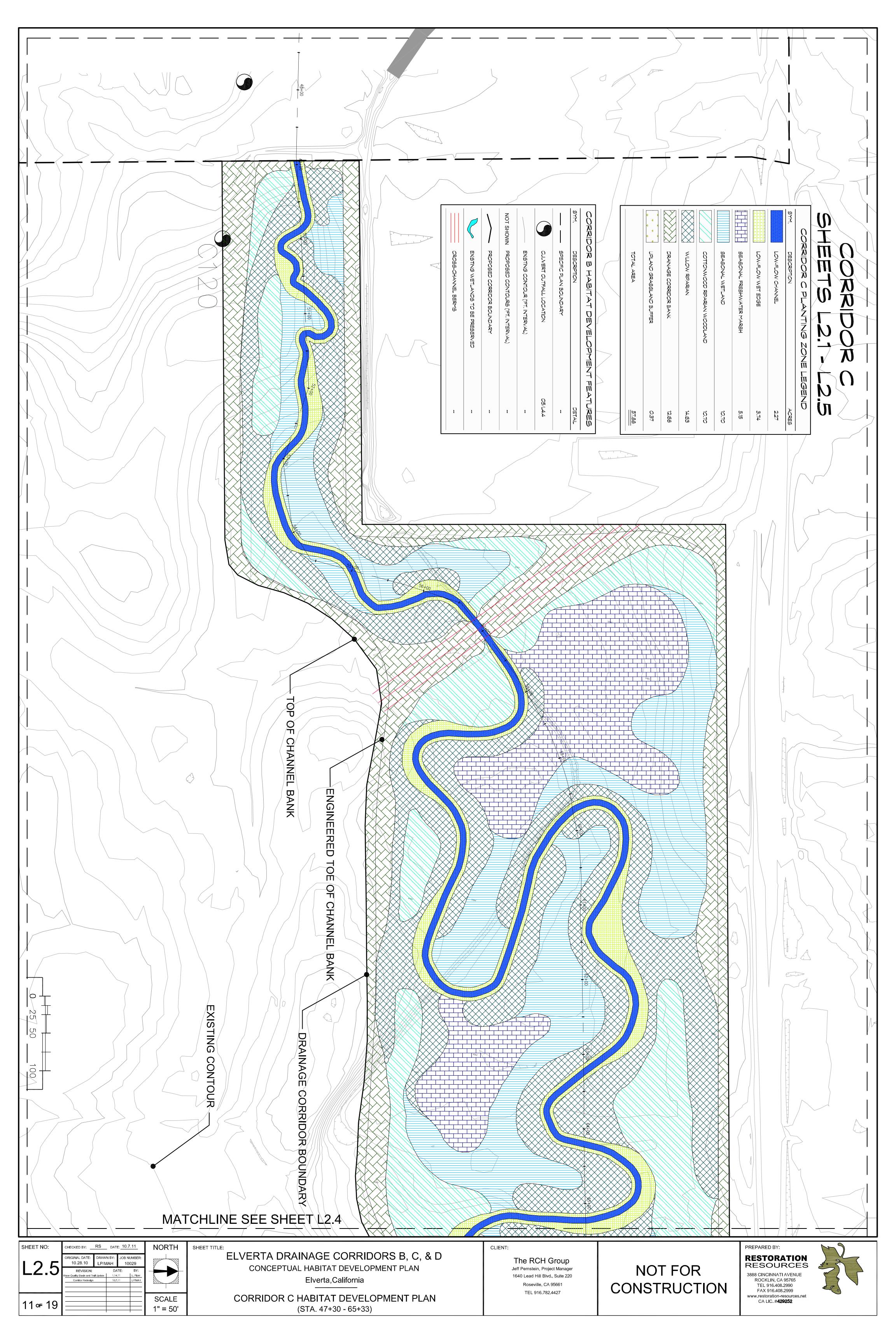


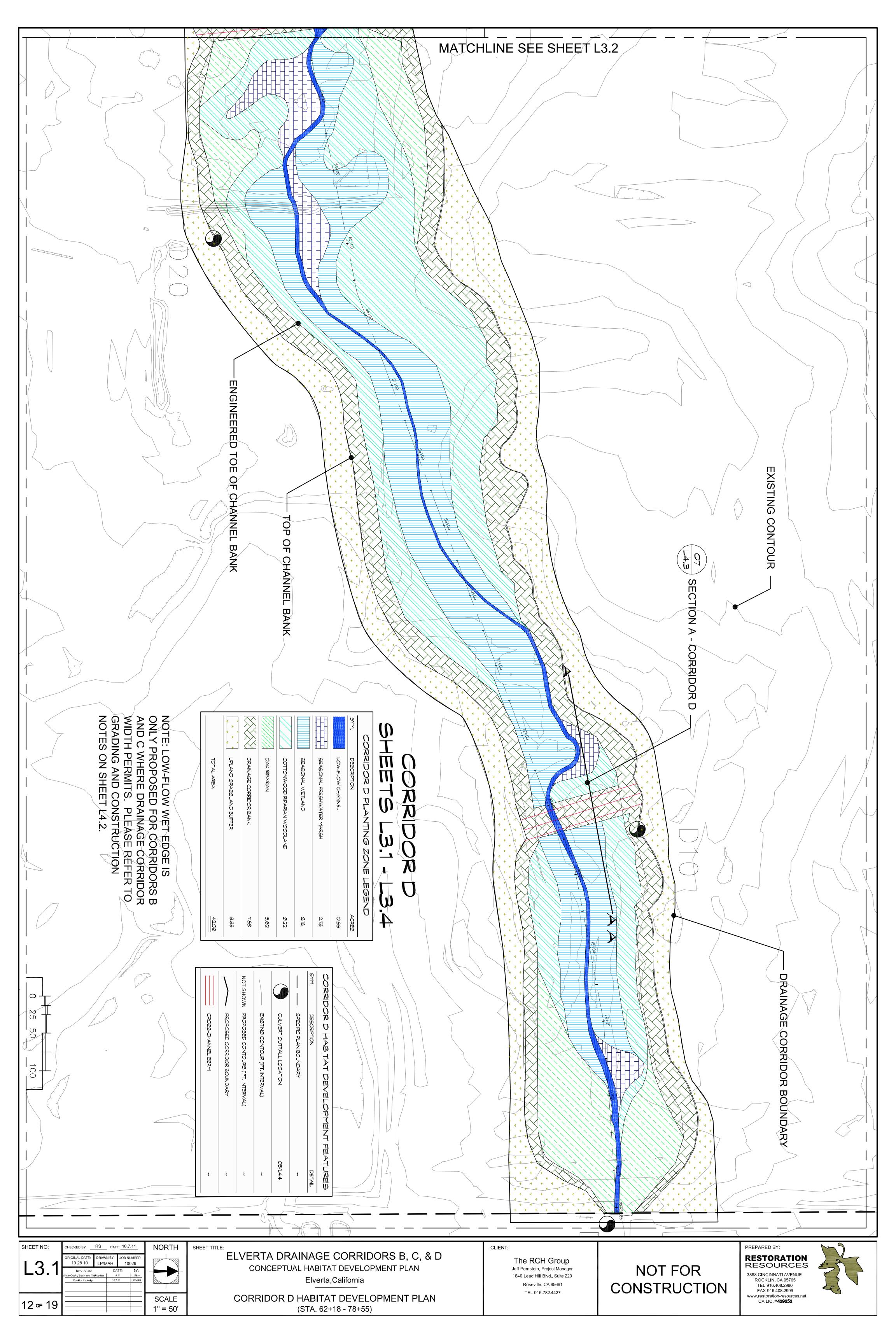


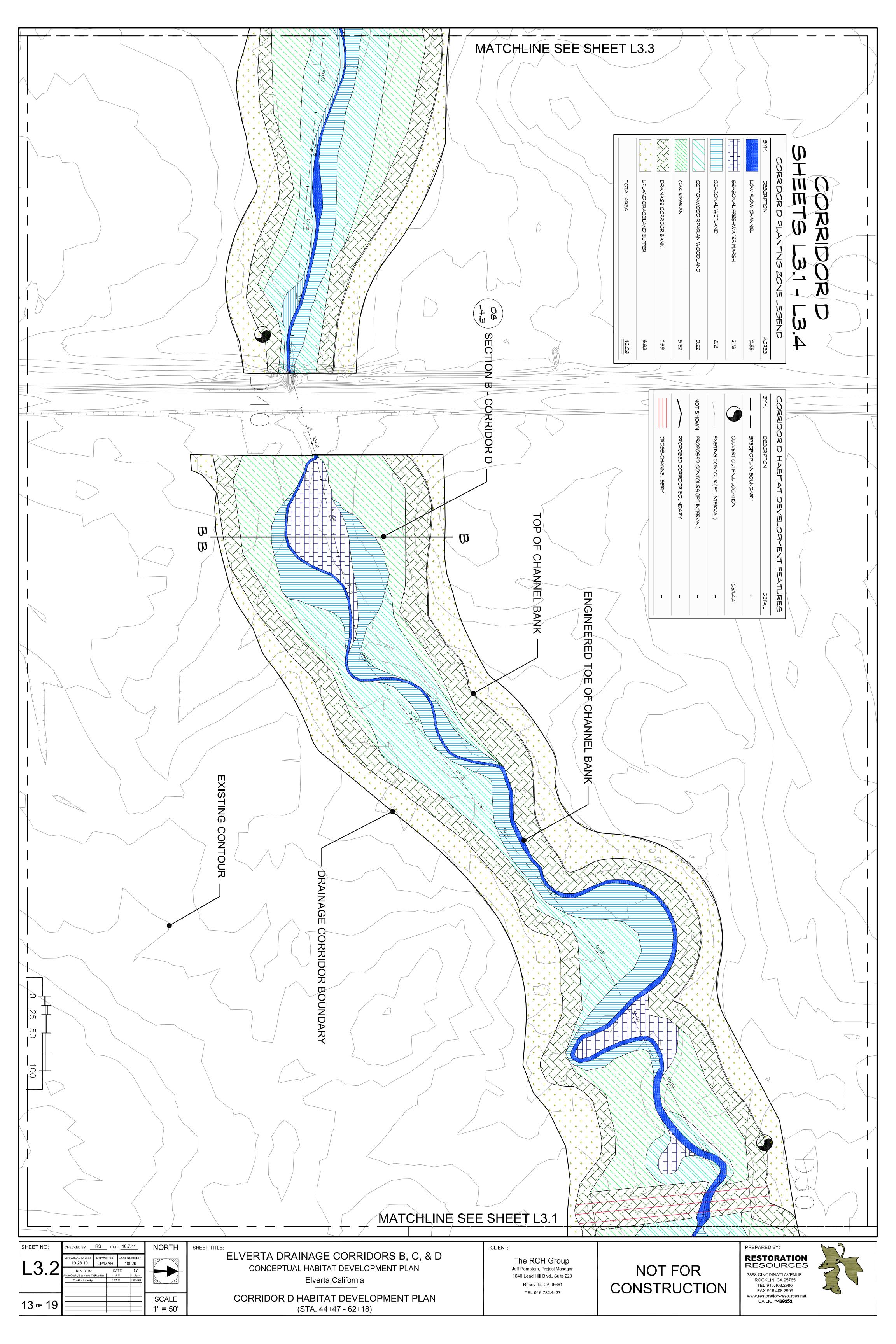


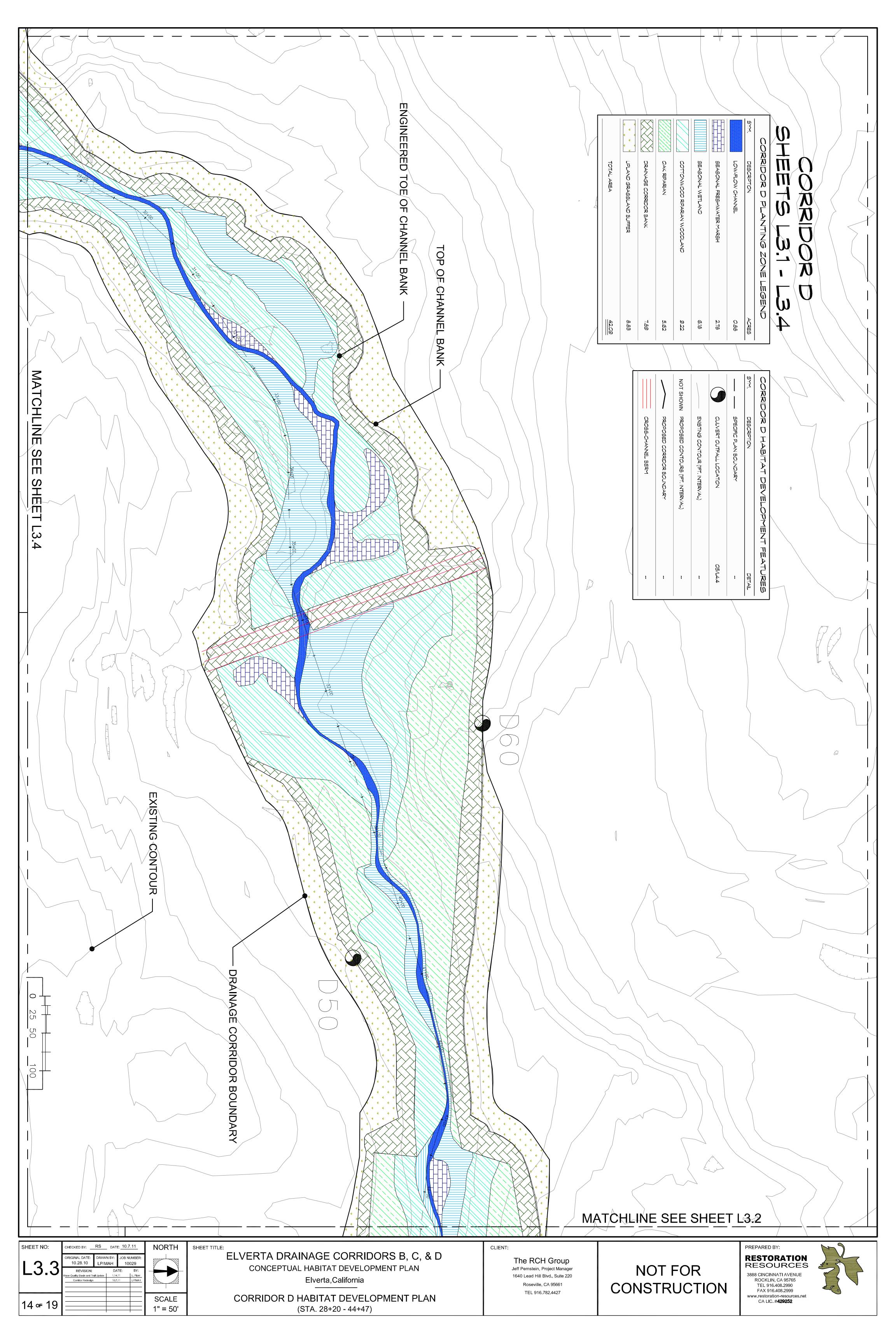


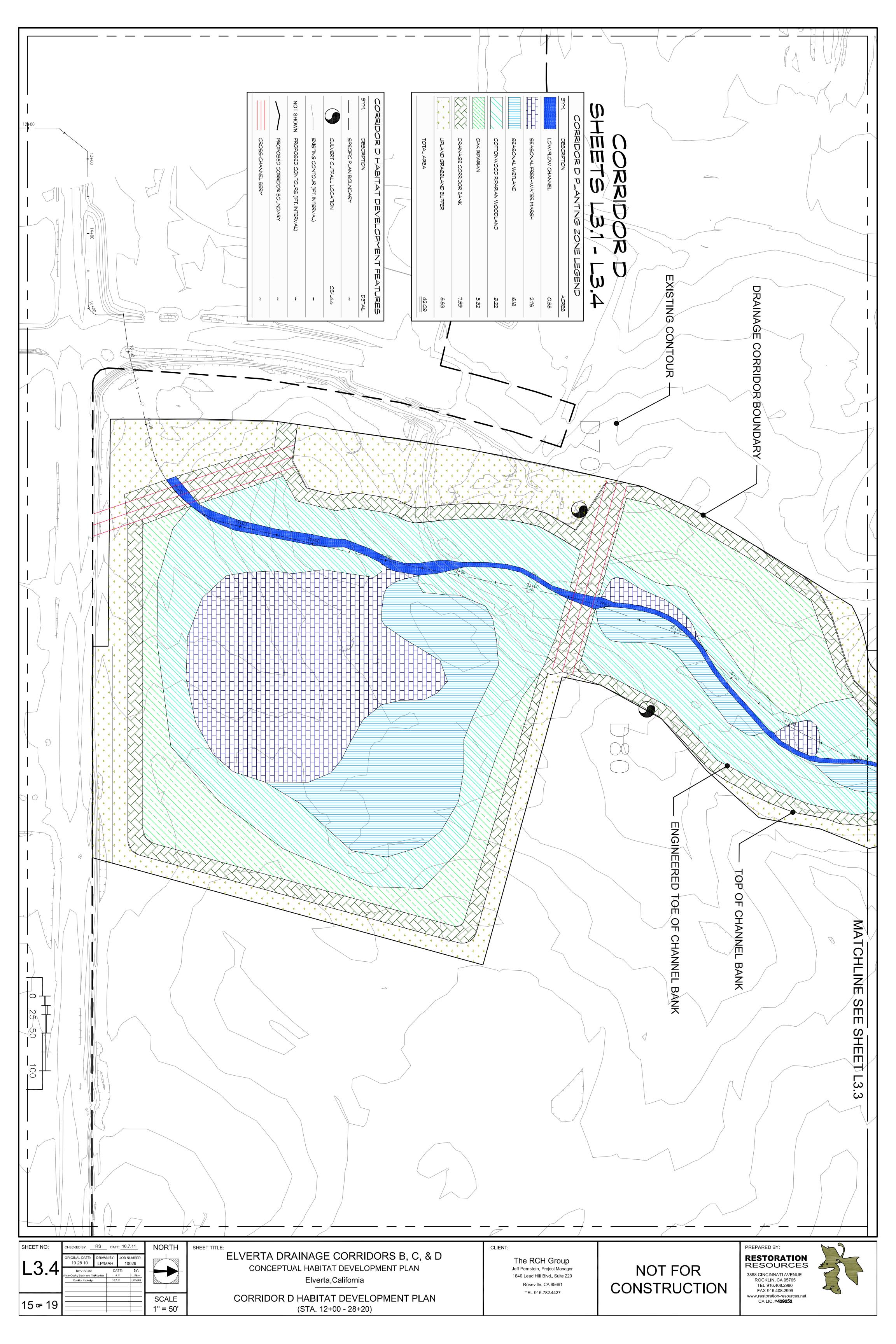












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TREE AND SHRUB PLANTING

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	207	Ö	TYPHA LATIFOLIA / COMMON CATTAIL
	207	<u>0</u>	SCHOENOPLECTUS ROBUSTUS / STURDY BULRUSH
	207	0	SCHOENOPLECTUS ACUTUS OCCIDENTALIS / TULE
	ប៊ូច	75	JUNGUS PATENS / GOMMON RUSH
	55	75	JUNCUS EFFUSUS / SOFT RUSH
	QUANTITY REQ.	アこうので (二太元ののようし) かれな 入りなれ	BOTANICAL NAME / COMMON NAME
	AREA (acres): 2.07 AC		HABITAT TYPE: SEASONAL FRESHWATER MARSH Low flow channel & basins upstream of weirs
	2,898	บบ O	TOTAL PLUGS
	4 w	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	JUNGUS PATENS / COMMON RUSH
	44 W	75	JUNGUS EFFUSUS / SOFT RUSH
	4 80 W	%	JUNCUS BALTICUS / BALTIC RUSH
	322	UI O	GRINDELIA CAMPORUM / GUMPLANT
	4 00 W	75	ELEOCHARIS MACROSTACHYA / PALE SPIKERUSH
	<i>6</i> 4 4	0 0	CAREX BARBARAE / WHITE ROOT SEDGE
TOTAL QUANTITY PER ACRE:	QUANTITY REQ.	PLUGS (TREEBAND) PER ACRE	<u> </u>
YTIG CALIFORNICA / CALIFORNIA WILD GRAPE	78	ស៊	TOTAL bs
RUBUS URSINUS / CALIFORNIA BLACKBERRY	30	0	OEVETHERA ELATA / EKEVING PRIMROGE
BACCHARIS SALICIFOLIA / MULEFAT	39	0	EUTHAMIA OCCIDENTALIS / GOLDENROD
	130	20	TOTAL bs
	20	4	LEYMUS TRITICOIDES / CREEPING WILD RYE
	9 N	4	HORDEUM BRACHYANTHERUM / MEADOW BARLEY
WALX ZIONA / BLACK XILLOX	9	4	ELYMUS GLAUCUS / BLUE WILD RYE
POPULUS FREMONTI / COTTONWOOD	9	4	ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS
BOHANDAL NATE OF WOODLING	9	4	AGROSTIS EXARATA / BENTGRASS
LABITAT TYDE: COTTONWOOD RIPARIAN	(בשט)	(#LBS/ACRE)	BOTANICAL NAME / COMMON NAME
			HABITAT TYPE: WILLOW RIPARIAN / Two year flood plain outside of low flow channel and basins
	10 O	4	TOTAL lbs
BACCHARIS SALICIFOLIA / MULEFAT	60	UI	OENETHERA ELATA / EVENING PRIMROSE
	00	ເກ	GRINDELIA CAMPORUM / GUMPLANT
SALX NGRA / BLACK WILLOW	n) 4	4	EUTHAMIA OCCIDENTALIS / GOLDENROD
	270	20	TOTAL Ibs
	m 4	4	LEYMUS TRITICOIDES / CREEPING WILD RYE
	m 4	4	HORDEUM BRACHYANTHERUM / MEADOW BARLEY
	เป 4	4	ELYMUS GLAUCUS / BLUE WILD RYE
HABITAT TYPE: WILLOW RIPARIAN	៧ 4	4	ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS
	₪ 4	4	AGROSTIS EXARATA / BENTGRASS

270	 1) n) n.	п. 44	เป 4	ເປ 4	(LBS)	AREA (acres): 13.51 AC			374	Ö	Ö	<i>p</i>	<i>p</i>	₩ 4 	(FBS)	AREA (acres): 17.02 AC	
	SALX BXGCA / SANDBAR WILLOW	FRAXINUS LATIFOLIA / OREGON ASH	ALNUS RHOMBIFOLIA / WHITE ALDER	BOTANICAL NAME/COMMON NAME	HABITAT TYPE: WILLOW RIPARIAN XXXX			TOTAL QUANTITY PER ACRE:	VITIS CALIFORNICA / CALIFORNIA WILD GRAPE		ROSA ACICULARIS / WILD ROSE		SAMBUCUS MEXICANA / BLUE ELDERBERRY	ABSCULUS CALIFORNICA / CALIFORNIA BUCKEYE	QUERCUS VISCEZEN / NTERIOR LIVE OAK	QUERCUS LOBATA / VALLEY OAK	BOTANICAL NAME/COMMON NAME	HABITAT TYPE: DRAINAGE CORRIDOR BANK	
i	ເ ກ	ប៊ា	່ທ	QTY./AC.	3.28 AC	AREA (acres):		ហ O	Ø	w	O	4	ເກ	ω	tn	1	QTY/AC.	AREA (acres):	

NAGRICE WEEK FESCUE

VULPIA MICROSTACHYS / THREE WEEK FESCUE

TOTAL bs

						I		OENETHERA); AGROSTIS	BOTANICAL	Two year flo	1 1			(0) Z Z U			SUM/181	
		BALTICUS / BALTIC RUSH	GRINDELIA CAMPORUM / GUMPLANT	ELEOCHARIS MACROSTACHYA / PALE SPIKERUSH	CAREX BARBARAE / WHITE ROOT SEDGE		TOTAL b₅	ERA ELATA / EVENING PRIMROSE	EUTHAMIA OCCIDENTALIS / GOLDENROD	TOTAL be	LEYMUS TRITICOIDES / CREEPING WILD RYE	HORDEUM BRACHYANTHERUM / MEADOW BARLEY	ELYMUS GLAUCUS / BLUE WILD RYE	ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS	TIS EXARATA / BENTGRASS	BOTANICAL NAME / COMMON NAME	WILLOW RIPARIAN / WABITAT TYPE: SEASONAL WETLAND Two year flood plain outside of low flow channel and basins		TOTAL be	ERA ELATA / EVENING PRIMROSE	GRINDELIA CAMPORUM / GUMPLANT	EUTHAMIA OCCIDENTALIS / GOLDENROD	TOTAL be	TRITICOIDES / CREEPING WILD RYE	
75 (ì	7	50 O	5H 75	100	PLUGG (TREEBAND) PER ACRE	L lbs 12	0	0	L lbs 20	4	## 	4	ASS 4	4	DRILL SEED RATES (#LBS/ACRE)			L lbs 14	ປາ	tn	4	- lbs 16	4	
- 20 20 20		1,900	1,267	1,900	2,533	QUANTITY RE	3 <i>0</i> 4	152	152	505	<u>0</u>	$\vec{\mathcal{Q}}$	$\vec{\mathcal{Q}}$	\vec{Q}	\vec{Q}	SEED REQUIRED (LBS)	AREA (acres) 25.33 AC		7117	42	4 2	<u>ය</u> ය	132	ຜ	

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UPLAND GRAGGLAND BUFFER /	• • • • • • • • • • • • • • • • • • • •	AREA (acres):	HABITAT TYPE: DRAINAGE CO
BOTANIOAL NAMII / OOMKON NAMIII	DRILL SEED RATES (#I BG /ACRE)	, SEED REQUIRED (1 RG)	BOTANICAL NAME/COMMON NAME
	N		QUERCUS LOBATA / VALLEY
ELYMUS GLAUCUS / BLUE WILD RYE	4	មា	
MELICA CALIFORNIA / COLIFORNIA MELIC	4	បា ស	
NASSELLA PULCHRA / PURPLE NEEDLEGRASS	0	78	SAMBUCUS MEXICANA / BLUE
YULPIA MIGROSTACHYS / THREE WEEK FESCUE	0	78	RHAMNUG CALIFORNICA / CO
TOTAL lbs	os 22	286	ROSA ACICULARIS / WILD RO
			RUBUS URSINUS / CALIFORNIA
			VITIS CALIFORNICA / CALIFOR
HABITAT TYPE: COTTONNOOD RIPARIAN WOODLAND		AREA (acres): 8.33 AC	TOTAL QU
BOTANICAL NAME / COMMON NAME	DRILL SEED RATES (#LBS./ACRE)	SEED REQUIRED (LBS)	
AGROSTIS EXARATA / BENTGRASS	4	<u>3</u>	
ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS	4	9	
HORDEUM BRACHYANTHERUM / MEADOW BARLEY	4	ម	

RUBUS URSINUS / CALIFORNIA BLACKBERRY	BACCHARIS SALICIFOLIA / MULEFAT	SALIX LASIOLERIS / ARROYO WILLOW	SALIX LUTEA / YELLOW WILLOW		POPULUS FREMONTI / COTTONWOOD	BOTANICAL NAME/COMMON NAME	HABITAT TYPE: WOODLAND	TOTAL QUANTITY PER ACRE	VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	BUTTON WILLOW	BACCHARIS SALICIFOLIA / MULEFAT	SALIX LASIOLEPIS / ARROYO WILLOW	SALX NIGRA / BLACK WILLOW	GALX MXIGUA / GANDBAR WILLOW	FRAXINUS LATFOLIA / OREGON ASH	
0	O M	25	0	្រី 	មា មា	QTY/AC.	AREA (acres): 8.33 AC	120	0	ថា	Ö	<u> </u>	<u>ប</u> ា	tn	បា់	

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TOTAL lbs	OENETHERA ELATA / EVENING PRIMROSE	EUTHAMIA OCCIDENTALIS / GOLDENROD	TOTAL lbs	LEYMUS TRITICOIDES / CREEPING WILD RYE	HORDEUM BRACHYANTHERUM / MEADOW BARLEY	ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS	AGROSTIS EXARATA / BENTGRASS	BOTANICAL NAME / COMMON NAME	HABITAT TYPE: SEASONAL WETLAND Two year flood plain outside of low flow channel and basins
ผี	0	0	ର	4	4	4	4	DRILL SEED RATES (#LBS:/ACRE)	
74	37	37	\vec{O}	25	2 5	ស	25	SEED REQUIRED	AREA (acres): 6.18 AC

CAREX BARBARAE / WHITE ROOT SEDGE	9
ELEOCHARIS MACROSTACHYA / PALE SPIKERUSH	4 0 4
GRINDELIA CAMPORUM / GUMPLANT	30 9
JUNCUS BALTICUS / BALTIC RUSH	4 6 4
JUNCUS EFFUSUS / SOFT RUSH	4 0 4
JUNCUS PATENS / COMMON RUSH	4 6 4
TOTAL PLUGS 450	2,783
HABITAT TYPE: SEASONAL FRESHWATER MARSH Low flow channel & basins upstream of weirs	AREA (acres): 2.78 AC
BOTANICAL NAME / COMMON NAME PER ACRE	QUANTITY REQ.
JUNCUS EFFUSUS / SOFT RUSH	209
JUNCUS PATENS / COMMON RUSH	20 80
SCHOENOPLECTUS ACUTUS OCCIDENTALIS / TULE 100	278
SCHOENOPLECTUS ROBUSTUS / STURDY BULRUSH 100	278
TYPHA LATIFOLIA / COMMON CATTAIL	278
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VBITAT TYPE: DRANAGE CORRIDOR BANK	AREA (acres): 12.66 AC
TANICAL NAME/COMMON NAME	QTY/AC.
IRCUS LOBATA / VALLEY OAK	បាំ
ERCUS WISLEZENI / INTERIOR LIVE OAK	芯
SCULUS CALIFORNICA / CALIFORNIA BUCKEYE	0
MBUCUS MEXICANA / BLUE ELDERBERRY	ស
AMNUS CALIFORNICA / COFFEEBERRY	Uī
SA ACICULARIS / WILD ROSE	ប៊ា
BUS URGINUS / CALIFORNIA BLACKBERRY	<u>ប</u> ា
'IS CALFORNICA / CALFORNIA WILD GRAPE	กี่

HABITAT TYPE: OAK RIPARIAN WOODLAND		AREA (acres
BOTANICAL NAME / COMMON NAME	DRILL SEED RATES SI (#LBS/ACRE)	SEED REQUIREI (LBS)
AGROSTIS EXARATA / BENTGRASS	4	N N
ELYMUS GLAUCUS / BLUE WILD RYE	w	17
ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS	4	N N
FESTUCA IDAHOENSIS / IDAHO FESCUE	ປາ	28
HORDEUM BRACHYANTHERUM / MEADOW BARLEY	4	N N
LEYMUS TRITICOIDES / CREEPING WILD RYE	4	N N
TOTAL lbs	24	<u>ដ</u> យ
HABITAT TYPE: COTTONWOOD RIPARIAN WOODLAND Located from edge of 2 year floodplain plus 1 in elevation	DRILL SEED RATES SI	AREA (acre 9.22 AC SEED REQUIREI
0	(#LBG:/ACRE)	(LBS)
AGROSTIS EXARATA / BENTGRASS	4	37
ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS	4	37
HORDEUM BRACHYANTHERUM / MEADOW BARLEY	4	37
LEYMUS TRITICOIDES / CREEPING WILD RYE	4	37
TOTAL lbs	ดี	148
EUTHAMIA OCCIDENTALIS / GOLDENROD	4	37
GRINDELIA CAMPORUM / GUMPLANT	បា	46
OENETHERA ELATA / EVENING PRIMROSE	ປາ	4

OWILLOW 10 VIA BLACKBERRY 20 VRNIA WILD GRAPE 30	SALIX NIGRA / BLACK WILLOW SALIX LUTEA / YELLOW WILLOW SALIX LASIOLEPIS / ARROYO WILLOW BACCHARIS SALICIFOLIA / MULEFAT RUBUS URSINUS / CALIFORNIA BLACKBERRY VITIS CALIFORNICA / CALIFORNIA WILD GRAPE
Win	SALIX NIGRA / BLACK WILLOW SALIX LOTEA / YELLOW WILLOW SALIX LASIOLEPIS / ARROYO W BACOHARIS SALIOFOLIA / MULE RUBUS URSINUS / CALIFORNIA B
	SALIX NIGRA / BLACK WILLOW SALIX LASIOLEPIS / ARROYO W SALIX LASIOLEPIS / ARROYO W SALIX LASIOLEPIS / ARROYO W
	SALIX LORGA / BLACK MILLON SALIX LORGA / BLACK MILLON SALIX LOTEA / YELLOW MILLON
\$ 000	SALX LOTEY / ABLTON MILLON SALX LOTEY / ABLTON MILLON SALX LOTEY / ABLTON MILLON
000	
E QTY/AC	BOTANICAL NAME/COMMON NAME
OOD RIPARIAN AREA (acres):	HABITAT TYPE: WOODLAND

YBITAT TYPE: DRAINAGE CORRIDOR BANK	AREA (acres): 12.66 AC
TANICAL NAME/COMMON NAME	QTY/AC.
JERCUS LOBATA / VALLEY OAK	បាំ
EROUS WIGHEZENI / INTERIOR LIVE OAK	ជ
ISCULUS CALIFORNICA / CALIFORNIA BUCKEYE	0
MBUCUS MEXICANA / BLUE ELDERBERRY	な
AMNUS CALIFORNICA / COFFEEBERRY	បា
SA ACICULARIS / WILD ROSE	បា
8 10 100	Ì

	HABITAT TYPE: OAK RPARIAN WOODLAND	
<u> </u>		<u>0</u>
DRILL SEED RATES		N N
	5.62	3 6

	(#LBS./ACRE)	(LBS)
ARINATUS / CALIFORNIA BROME	Ŋ	33
YANCUS / BLUE WILD RYE	4	9
LIFORNIA / COLIFORNIA MELIC	4	67
PULCHRA / PURPLE NEEDLEGRASS	0	Ö
ROSTACHYS / THREE WEEK FESCUE	Ø	<u>0</u>
TOTAL lbs	22	367

BOTANICAL NAME/COMMON NAME	QTY./AC.
QUERCUS LOBATA / VALLEY OAK	<u>ហ</u>
QUERCUS WISLEZENI / INTERIOR LIVE OAK	ผี
AESCULUS CALIFORNICA / CALIFORNIA BUCKEYE	0
SAMBUOUS MEXICANA / BLUE ELDERBERRY	ผี
RHAMNUS CALIFORNICA / COFFEEBERRY	UI
ROSA ACICULARIS / WILD ROSE	ូ ប៉ា
RUBUS URSINUS / CALITORNIA BLACKBERRY	ប៊ា
VITIS CALIFORNICA / CALIFORNIA WILD GRAPE	ហ៊
TOTAL CONTAINERS	

1	S.
	PREPARED BY:
	RESTORATION RESOURCES
	3888 CINCINNATI AVENUE ROCKLIN, CA 95765 TEL 916.408.2990 FAX 916.408.2999
	www.restoration-resources.net

CA LIC.#**429252**

TION RCES

SHEET NO:	CHECKED BY: RS DATE: 10.7.17			7.11		
1 1 1	ORIGINAL DATE: 10.28.10	DRAW		1	NUMBER: 0029	
∟4.	REVISION: DATE: Water Quality Basin and Trail Update 1.14.11		BY:			
	Corridor Redesign		10.7	.11	LP/MAH	
						H
16 10	-				 	

CLIENT:

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CONT

CROSS-CHANNEL BERMS: NO WOODY PLANTS SHALL BE PLANTED ON TOP

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WILLOW AND COTTONWOOD RIPARIAN PLANT SPACING: TREE PLANTINGS SHALL BE PLANTED IN CLUMPS CONCENTRATED ADJACENT TO THE LOW FLOW CHANNEL. WILLOW CLUMPS SHALL BE PLACED AS TO MINIMIZE IMPACT TO DRAINAGE CORRIDOR STORM WATER FLOWS. LOCATIONS AND SPECIES COMPOSITION WITHIN EACH WILLOW CLUMP SHALL BE VERIFIED BY THE PROJECT RESTORATION ECOLOGIST PRIOR TO INSTALLATION.

 $\underline{\mathsf{ROAD}}$ $\mathsf{CROSSINGS}_{:}$ AT ROAD AND PATHWAY UNDERCROSSINGS, PIPELINES PVC SLEEVES AT LEAST TWO TIMES THE SIZE OF PIPE AND HAVE A MIN COVER.

SOIL TESTING: CONTRACTOR SHALL OBTAIN AGRICULTURAL SUITABILITY AND FERTILITY TESTING. ANALYSIS SHALL INCLUDE RECOMMENDATIONS FOR SOIL PREPARATION AND MIX AS WELL AS RECOMMENDATIONS FOR POST MAINTENANCE FERTILIZATION. SOILS LABORATORY AND LOCATION/NUMBER OF REQUIRED SAMPLE LOCATIONS SHALL BE AFTILIZATION ECOLOGIST.

SOIL AMENDMENTS: CONTRACTOR SHALL CONDUCT SOIL AMENDMENT PREPARATION AND PREPARE PLANTING BACKFILL MIX TO CONFORM TO THE SOILS REPORT RECOMMENDATIONS. BID REVISIONS, AS A RESULT OF THE OWNER'S APPROVAL OF CHANGE ORDER PRIOR TO TO CONTRACTOR'S INSTALLING SOIL PREPARATION AND BACKFILL MIX.

INSPECTION: PLANTS ARE SUBJECT TO PROJECT RESTORATION ECOLOGIST INSPECTION SIZE, VARIETY, CONDITION, ROOT DEVELOPMENT DEFECTS, AND INJURY ON DELIVERY A THE PROJECT SITE AT ANY TIME BEFORE AND DURING PROGRESS OF WORK.

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10.

QUANTITIES: CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AREA (SQ. FT.) OF PLANTING LOCATIONS. QUANTITIES SHOWN ON OVER WRITTEN QUANTITIES IN 'PLANTING LEGEND'. MATERIALS

<u>LOCATION:</u> EXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE PROJECT RESTORATION ECOLOGIST IN THE FIELD PRIOR TO INSTALLATION. THE PROJECT RESTORATION ECOLOGIST RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN THE FIELD. AS

I 10:1 SHALL BE STRAY E RATE OF 1.5 TONS I EE WITH AN ORGANIC TA F 500 POUNDS PER AC

16.

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STRIPPING & SALVAGE: PR I SOIL AND GRASS. THE CONN). THE ENTIRE PORTION OF STOCKPILED WITH PRIOR TO SITE EXCAV.

TE CONTRACTOR SHALL 1

TON OF THE CORRIDOR 9

WITH A MAX. 4' IN DE

SHALL BE OVER-EXCAVATED BY MEET FINISH GRADES AS SHOWN

; ALL PROPOSED GRADES ARE TO MEET AND EXISTING CONTOURS. PRECISE ELEVATIONS AS TO AS-BUILT CONDITION. BLEND IN INDICATED WITH EXISTING GRADES ON PLANS SHALL BE

BY LAYING ENGINEER.

EQUIPMENT THAT ARE IMPORTED TO THE SITE, SUCH AS PREVENTION OF LUBRICATION LEAKS FROM EQUIPMENT, FUEL, HYDRAULIC FLUID, AND TRANSMISSION FLUID, PROPERLY STORING IMPORTED MATERIAL (BOTH HAZARDOUS AND NON—HAZARDOUS) SHALL BE IN A PROTECTED STORAGE AREA WITH SECONDARY CONTAINMENTS, HAVING A SPILL CONTROL PLAN, MAINTAINING AND INSPECTING PORTABLE TOILETS, AND ENSURING ALL WASTE CONTAINERS OR DUMPSTERS HAVE COVERS.

IMPLEMENT GENERAL SITE AND MATERIAL

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11. FILTER FABRIC: PLASTIC FILTER PLASTIC SHALL BE A PERVIOUS SHEET OF PLASTIC YARN, EITHER WOVEN OR NON-WOVEN CONSTRUCTION AND CONSIST OF A LONG-CHAIN SYNITHETIC POLYMER COMPOSED OF AT LEAST 85 PERCENT BY WEIGHT OF PROPYLENE, EITHYLENE, ESTER, AMIDE OR VINYLIDENE-CHLORIDE, AND SHALL CONTAIN STABILIZERS AND/OR INHIBITORS ADDED TO THE BASE PLASTIC IF NECESSARY TO MAKE THE FILAMENTS RESISTANT TO DETERIORATION DUE TO ULTRA-VIOLET AND HEAT EXPOSURE. THAN THE U.S. STANDARD SIEVE NO. 100 AND NO COARSER THAN U.S. STANDARD SIEVE NO. 40. THE FABRIC SHOULD BE FIXED SO THAT THE YARNS WILL RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER. THE EDGES OF THE FABRIC SHALL BE MANUFACTURED INTO A WIDTH OF 15 FEET. ACCEPTABLE PRODUCTS: MIRAFI 180N, REED & GRAHAM RG80N, OR APPROVED EQUAL, SUBMIT MFR'S PRODUCT INFO/DATA. FABRIC SHALL CONFORM TO THE FOLLOWING PHYSICAL STRENGTH QUALITIES: PHYSICAL PROPERTY TEST PROCEDURE ACCEPTABLE TEST RESULTS TENSILE STRENGTH ASTM D 5034 GRAB TEST 200 LB MINIMUM (ANY DIRECTION) PUNCTURE STRENGTH. STAPLES FOR SECURING FABRIC IN PLACE SHALL BE MADE OF 0.12 INCH STEEL WIRE AND SHALL BE U-SHAPED WITH 7.9-INCH LEGS AND A 2-INCH CROWN.

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FIELD MODIFICATIONS: FIELD MODIFICATIONS TO THE HABITAT RESTORATION DESIGN MAY BE ALLOWED AS SITE CONDITIONS WARRANT AND ONLY AT THE DISCRETION OF THE PROJECT RESTORATION ECOLOGIST AND THE OWNER'S REPRESENTATIVE. ALL APPLICABLE REGULATIONS, TERMS, AND CONDITIONS PERTAINING TO THE CONTRACT SHALL BE SATISFIED WITH ANY AND ALL CHANGES TO THE DESIGN.

AS BUILT RECORDS: THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE AND RESTORATION ECOLOGIST "AS-BUILT" DRAWINGS IN PAPER (3 COPIES) AND REPRODUCIBLE FORM (EITHER PLOTTED OR PDF FORM) THAT SHALL SHOW ALL DEVIATIONS FROM THE BID DOCUMENTS MADE DURING CONSTRUCTION. THESE DEVIATIONS SHALL BE RECORDED USING GPS EQUIPMENT AND REPRESENTED ON A SET OF BASE PLANS TO BE PROVIDED. THIS RAW DATA SHOWING POLYGONS OF AS CONSTRUCTED ZONES SHALL BE SUBMITTED TO THE RESTORATION ECOLOGIST FOR USE IN FUTURE MONITORING AND MAINTENANCE.

THE CONTRACTOR SHALL PROVIDE A DESCRIPTION OF ANY TOXIC MATERIAL (LUBRICATION OILS, CLEANING SOLVENTS, FERTILIZER, PESTICIDES, PORTABLE TOILET CHEMICALS, SLURRY WALL MATERIAL, ETC) THAT WILL BE TRANSPORTED TO THE CONSTRUCTION SITE AND MAY POTENTIALLY BE AFFECTED BY A STORMWATER EVENT. THE DISCHARGER SHALL IDENTIFY THE SPECIFIC BMPS ASSOCIATED WITH EACH TOXIC MATERIAL ON HOW TO CONTAIN THE TOXIC MATERIAL DURING A STORMWATER EVENT.

PERMITS AND FEES: THE TO ANY GOVERNMENTAL A LOCAL ORDINANCES DURIN REQUIRED. CONTRACTOR SHALL OBTAIN ALL PERMITS AND AGENCY HAVING JURISDICTION OVER THE WORK.

SIONS AND

SITE INSPECTION: THE CONTRACTOR SHALL BE ACQUAINTED WITH ALL SITE CONDITIONS. THE CONTRACTOR SHALL CONFIRM LOCATION OF ANY EXISTING UTILITIES ON SITE BY CALLING USA (800-227-2600) PRIOR TO ANY EXCAVATION OR PLANTING ACTIVITIES. SHOULD SITE UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE PROJECT ENGINEER. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE THERETO ARISING FROM OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN IN PLANS.

THE PROJECT SUBSTITUTED,

ILY UNDER APPROVAL FROM TO COUIPMENT OR MATERIALS BE SE E OR AVAILABLE.

THE STAGING AREA SHALL BE DEFINED, AND HAUL ROUTES ESTABLISHED, WITH A ROCK ENTRANCE AT THE MAIN ACCESS LOCATION.

THE CONSTRUCTION ENTRANCE WILL BE EQUIPPED WITH A STABILIZED CONSTRUCTION ENTRANCE TO PREVENT TRACK—OUT.

FIELD VERIFICATION: FIELD VERIFY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD P TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.

VARIABLE SITE CONDITIONS: REFER TO GRADING AND DRAINAGE PLANS FOR SITE GRADIN DRAINAGE INFORMATION. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON HABITAT PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND PROJECT RESTORATION ECOLOGIST FOR DIRECTION AS TO HOW TO PROCEED.

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ONGTRUCTION

BEST MANAGEMENT PRACTICES (BMPS) MEASURES SHALL BE IN PLACE PRIOR TO THE ONSET OF THE FALL RAINY SEASON (OCTOBER 15) OR ANY ANTICIPATED STORM EVENT.

SILT FENCES WILL BE REMOVED AFTER CONSTRUCTION AND STRAW WATTLES WILL REMAIN IN PLACE UNTIL APRIL 15 OF THE FOLLOWING YEAR TO REDUCE SEDIMENT MOVEMENT DURING THE RAINY SEASON. THE POST-CONSTRUCTION STORM WATER MANAGEMENT SHALL CONSIST OF INSPECTING THE SITE, ASSESSING THE REVEGETATION PROCESS, AND OBSERVING EROSION CONTROL FABRIC AND STRAW WATTLES AND REPLACING IF NEEDED.

CHANGES IN THE PROJECT, WHICH MAY AFFECT THE SWPPP OR INCREASE THE RISK OF STORMWATER POLLUTION REQUIRE A NEW SWPPP AMENDMENT. ALL AMENDMENTS SHALL BE DATED AND SIGNED, AND DIRECTLY ATTACHED TO THE ORIGINAL SWPPP. A SITE INSPECTION MAINTENANCE/REPAIR FORM SHALL BE KEPT DURING CONSTRUCTION FOR EACH INCIDENT AS IT OCCURS, AND MAINTAINED IN A DAILY FIELD LOGBOOK BINDER TO FILE THE COMPLETED INSPECTION RECORDS.

POST-CONSTRUCTION STORMWATER MANAGEMENT

CONTRACTOR SHALL ALSO DESCRIBE ANY NON-TOXIC CONSTRUCTION MATERIAL (I.E. SAND, CONCRETE, AGGREGATE, SOIL AMENDMENTS, WASHING SOAP, AND WASTEWATER, ETC) AND ANY EQUIPMENT THAT MAY POTENTIALLY CAUSE A DISCHARGE OF MATERIAL INTO RECEIVING WATER, AND DESCRIBE ALL NON-TOXIC CONSTRUCTION MATERIALS, COMMERCIAL EQUIPMENT AND VEHICLES THAT WILL COME IN CONTACT WITH POTENTIAL STORMWATER DURING THIS PROJECT.

THE SWPPP SHALL BE AVAILABLE AT THE CONSTRUCTION SITE WHILE THE SITE IS UNDER CONSTRUCTION DURING WORKING HOURS, COMMENCING WITH THE INITIAL CONSTRUCTION ACTIVITY AND ENDING WITH THE TERMINATION OF COVERAGE. IT SHALL BE LOCATED AT AN ACCESSIBLE AND KNOWN LOCATION IN THE ON-SITE OFFICE.

A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE GENERAL PERMIT WILL OBTAINED BY THE CONTRACTOR AND THE RECEIPT OF THE NOI AND THE WASTE DISCHARGE ID (WDID) NUMBER WILL BE AVAILABLE PRIOR TO THE START OF CONSTRUCTION.

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) : STATE CERTIFIED SUB-CONSULTANT TO THE CONTRACTOR

SHALL BE PREPARED BY

CONSTRUCTION

LOW FLOW WET EDGE: A LOW FLOW WET EDGE SHALL BE CONSTRUCTED IN THE LOCATIONS AS SHOWN ON THE PLANS AND DETAIL 06/L4.4 TO ALLOW FOR FLUCTUATIONS IN SUMMER FLOWS. THE LOW FLOW WET EDGE SHALL NOT BE CONSTRUCTED WHERE CORRIDOR WIDTH OR ALONG THE ENTIRETY OF CORRIDOR D WHICH WILL ACCOMMODATE ADDITIONAL SUMMER CONSTRUCTED SEASONAL WETLAND HABITAT.

DUE DILIGENCE: CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.

MATERIAL DAMAGE: CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.

AGENCY COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, CITY, AND COUNTY LAWS AND REGULATIONS AND PROJECT PERMITS NECESSARY TO COMPLETE THE WORK. THE OWNER SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND APPROVALS NORMALLY REQUIRED TO COMPLETE THE WORK. PRIOR TO THE START OF WORK, ALL NATURAL RESOURCE AGENCY PERMITS SHALL BE ACQUIRED. COPIES OF THESE PERMITS SHALL BE MADE AVAILABLE TO THE RESTORATION ECOLOGIST AND CONTRACT AS APPROPRIATE.

<u>ADHERENCE:</u> THE CONTRACTOR SHALL REFER TO AND ADHERE TO ALL REQUIREMENTS OF THE PLAN. A COMPLETE COPY OF THE PLAN SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

A WATER TRUCK SHALL BE USED ON-SITE DURING CONSTRUCTION IN ORDER TO DAMPEN THE SOIL TO PREVENT WIND EROSION AND FOR DUST CONTROL.

CONTROL SEEDING TO THE ONSET OF

EROSION CONTROL (SOIL STABILIZATION SHALL BE USED TO PREVENT THE INITIAL MOBILIZATION OF SOIL PARTICLES DURING A RAIN EVENT). THE MOST EFFICIENT WAY TO ADDRESS EROSION CONTROL IS TO PRESERVE EXISTING VEGETATION WHERE FEASIBLE, TO LIMIT DISTURBANCES, AND TO STABILIZE AND REVEGETATE DISTURBED AREAS AS SOON AS POSSIBLE AFTER GRADING OR CONSTRUCTION OPERATIONS.

STANDARDS: CONTRACTOR SHALL FURNISH WORK AND MATERIALS MEETING THE REQUIREMENTS OF THE SPECIFICATIONS AND INDUSTRY STANDARDS. IT IS NOT THE INTENT OF THE SPECIFICATION SECTIONS TO OUTLINE ALL THE TECHNICAL REQUIREMENTS OR TO SET FORTH THOSE REQUIREMENTS ADEQUATELY COVERED BY THE APPLICABLE CODES AND STANDARDS. THE PROJECT RESTORATION ECOLOGIST SHALL COORDINATE WITH THE CONTRACTOR ON ALL APPLICABLE REGULATIONS AND STANDARDS RELEVANT TO HABITAT RESTORATION.

CONSTRUCTION AND

EXCAVATION NEAR UTILITIES: EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIALS SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.

<u>UTILITY COORDINATION:</u> CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH APPROPRIATE AGENCIES AND PLANS, FOR THE LOCATIONS OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.

<u>UNDERGROUND UTILITIES:</u> CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 1-800-227-2600) 48 HOURS PRIOR TO ANY EXCAVATION.

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SILT FENCING, SUPPLEMENTED WITH STRAW WATTLES WILL BE INSTALLED AROUND THE PERIMETER OF THE WORK AREA SO THAT ANY EROSION WILL NOT IMPACT ANY STREAM CHANNELS OR SURROUNDING AREAS. A PROTECTIVE SILT FENCE SHALL ALSO BE PLACED AROUND THE PERIMETER OF ANY EXISTING PROTECTED WETLAND AREAS SITUATED 50 FT FROM CONSTRUCTION AREAS OR DOWN SLOPE OF ANY CONSTRUCTION ZONES.

STRAW WATTLES SHALL BE PLACED AROUND THREE SIDES OF THE STAGING AREA AND AT THE BASE OF SLOPES, SECURED WITH WOODEN STAKES EVERY FOUR FEET. DOUBLE ROWS OF STRAW WATTLES SHALL BE PLACED IN MAJOR RUN-OFF

RIP RAP: SHALL BE DURABLE AND OF SUITABLE QUALITY TO ENSURE ITS PERMANENCE. ROCK SHALL BE NO. 2 CLASS ROCK CONFORMING TO CALTRANS STANDARD SPECIFICATION SECTION 72. ROCK SHALL BE 1/4 TON, QUARRIED GRANITE, ANGULAR IN SHAPE, SUPPLIED FROM AN APPROVED SOURCE (SUBMIT SUPPLIER'S PRODUCT DATA). ROCK SIZES SHALL BE 6-INCH TO 12-INCH DIAMETER AGGREGATE. APPLY RIP-RAP OVER FILTER FABRIC LAYER (KEYED AROUND ALL EDGES) OVER COMPACTED SUBGRADE. PLACE STONE TO PROVIDE A MINIMUM OF VOIDS, ARRANGED SO THAT EACH STONE HAS AT LEAST A 3-POINT BEARING ON UNDERLYING STONES. CHINK INTERSTICES WITH SMALLER STONES. THE FINISHED SURFACE SHALL BE EVEN AND TIGHT, AND SHALL NOT VARY FROM THE PLANNED SURFACE BY MORE THAN 3-1/2 INCHES MEASURED AT RIGHT ANGLES TO THE SLOPE.

STORM WATER SYSTEM OUT FALLS: A FLARED ENERGUIRED FOR EACH STORM WATER SYSTEM OUTF SHALL BE APPROVED BY THE PROJECT ENGINEER L4.4 FOR TYPICAL ROCKED OUTFALL DESIGN.

SCREENS: PLANT PROTECTION DEVICES FOR EXCLUSION OF SMALL ANIMALS SHALL BE INSTALLED AROUND THE WOODY PLANTS AFTER PLANTING. THEY SHALL BE CONSTRUCTED FINE MESH ALUMINUM SCREEN 24" TALL. EACH CAGE SHALL BE FORMED INTO A 12" TO DIAMETER CYLINDER AND PLACED VERTICALLY AROUND THE PLANT. THEY SHALL BE SET A MINIMUM OF 2" BELOW GRADE AND STAKED WITH A PRESSURE TREATED REDWOOD 1"X1") NURSERY STAKE OR APPROVED EQUAL.

L EXCAVATIONS AS REQUIRED IS SECTION INCLUDING THE RES' JUDERGROUND INSTALLATIONS, IN TREI SHALL AS FOL FOR STOR/ ETC. E B S

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FIELD VERIFY: CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL PERTINENT IMPROVEMENTS INSTALLED AS PART OF OTHER PLANS, IF ANY PART OF THIS BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE PROJECT RESTORATION FOR DIRECTION AS TO HOW TO PROCEED.

FEDING NOTES

SOILS TESTING REPORT: A COPY OF THE SOILS REPORT SHALL BE PROVIDED PROJECT RESTORATION ECOLOGIST PRIOR TO ANY WORK BEING DONE. THE CHARL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY SOIL PROBLEMS THAT PLANT GROWTH PRIOR TO BEGINNING PLANTING.

REJECTION: CONTRACTOR SHALL REMOVE REJECTED PLANTS FROM THE SITE IMMEDIATELY REPLACE WITH ACCEPTABLE MATERIALS AS SPECIFIED.

SELECTION: PROVIDE MATCHING FORMS AND SIZES FOR SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.

PLANTING SHALL ONLY OCCUR AFTER THE HAS BEEN MADE. SEEDING OTHER THAN HIN SEPTEMBER 1 AND OCTOBER 15, AND PRIMMEDIATELY THEREAFTER.

LATERAL LINES: SHALL BE SCHEDULE 40 PVC PIPE UNLESS MINIMUM OF 12" BELOW GRADE WHEN ON OPEN FLATLAND. IBE LOCATED ON THE SURFACE WHEN ON STEEP SLOPES, IN STAPLED WITH "U" SHAPED NO. 3 REBAR AT 15' INTERVALS.

JBSTITUTIONS: CONTRACTOR SHALL REPORT SUBSTITUTIONS TO SEED SPECIES JANTITIES AND RECIEVE APPROVAL BY THE PROJECT RESTORATION ECOLOGIST RIOR TO INSTALLATION.

SUBSTITUTIONS

APTED BY THE CONTRACTOR FOUNDED BY THE CONTRACTOR FOUNDED BY THE SEED. AFTER ED-FREE RICE STRAW SHALL EDED AREA. ALL STRAWED AFTER ALL STRAWED AFTER BY THE BY THE

FIRE PREVENTION-FIREBREAKS SHALL EITHER BE MOWED OR BY OTHER MEANS AS DIRECTED BY LOCAL AUTHORITIES, DURING SUMMER MONTHS TO CONTAIN OR MINIMIZE POSSIBILITY OF FIRE THREAT IN GRASSLAND AREAS.

PROTECTIVE FENCING, SIGNAGE, CAGES, OR OTHER MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT ACTIVITIES BY PEOPLE OR ANIMALS WHICH MAY TRESPASS OR DAMAGE EXISTING PLANTINGS.

DAPTIVE MAINTENANCE: ANALYSIS OF THE CAUSE OF FAILURES SHALL BE MADE, AND EMEDIAL ACTIONS SHALL BE RECOMMENDED TO CORRECT ANY PROBLEM IF A PERFORMANCE RITERION OR FINAL SUCCESS RATE IS NOT MET, AS PART OF THE FULL RESPONSIBILITY FOR AINTENANCE.

'HE CONTRACTOR SHALL HAND WATER PLANT SPECIES IN HABITAT ZONES THAT ARE NOT DRIF RRIGATED AS NEEDED DURING THE DRY SEASON BASED ON A PLANT MONITORING STRATEGY AND PLANTING.

ANY SWPPS PREVENTATIVE BEST MANAGEMENT PRACTICES WHICH BECOME NECESSARY DURING THE OCTOBER TO APRIL SEASON SHALL BE CARRIED OUT BY THE CONTRACTOR AS VECESSARY TO ENSURE THAT THE PLANTING AREAS REMAIN RELATIVELY STABLE AND LESS PRONE TO WASHOUTS. HOTO DOCUMENTATION AS PART OF EITHER THE MAINTENANCE OR MONITORING SHALL BE EPT IN THE LOGBOOK WITH NOTATIONS AND DATES AS PART OF THE ONGOING RECORD OF ROGRESS IN PLANT ESTABLISHMENT.

TENANCE MONITORING AND REPORTING ABITAT MANAGEMENT CREWS SHALL KEEP DAILY MAINTENANCE LOGS WITH WRITTEN NOTATION RECORDS OF DATE, PERSONNEL, IRRIGATION SYSTEM OPERATION, PERFORMANCE, REPAIRS WODIFICATIONS, ETC. THESE LOGS SHALL ALSO INCLUDE DATED ENTRIES RECORDING ALL WEED CONTROL EFFORTS, GENERAL MAINTENANCE, REPLACEMENT, PROTECTIVE MEASURES, OR ANY DITHER ACTIVITY AFFECTING THE APPEARANCE OR PERFORMANCE OF THE PROJECT SITE.

ANNUAL MONITORING REPORTS WILL BE SENT TO THE OWNER AND PROJECT ECOLOGIST AND BY DECEMBER 31 OF EACH YEAR OF THE ESTABLISHING PERIOD. WHEN REQUESTED, AS PART JOB NUMBER

SHEET NO:

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ELVERTA DRAINAGE CORRIDORS B, C, & D CONCEPTUAL HABITAT DEVELOPMENT PLAN Elverta, California

CLIENT:

NOT FOR CONSTRUCTION

PREPARED BY: RESTORATION RESOURCES 3888 CINCINNATI AVENUE ROCKLIN, CA 95765 TEL 916.408.2990 FAX 916.408.2999

CONSTRUCTION NOTES

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